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HELLON INSTITUTE OF INDUSTRIAL RESEARCH

UNIVERSITY OF PITTSBURGH



PROGRESS REPORT for the month ended February 28, 1946

Carbide and Carbon Chemicals Corporation Industrial Fellowship No. 274-9

Subjects under)
which report is)
to be indexed)

CONTAINS NO CBI

Fluorine Compounds

On 12-14-45 three fluorine compounds were received from S. Charleston for evaluation of their toxicity relative to similar chlorine compounds. All are gases at room temperature so vapor inhalation was called for. Due to the limited size of samples now available only single exposures were possible and consequently our comparison refers only to acute toxicity, not chronic. The results of exposing groups of 6 rats to known vapor concentrations are tabulated below, arranged in pairs with chlorine compounds as closely analogous as possible. Results not useful for comparison have been omitted.

	Ppm.	Time	Mor- tality
- 1, 1, 2-Trichloroethane	500	4 hrs.	1/6
- 1, 1, 2, 2-Tetrachloroethylene	4,000	1 hr.	5/6

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